DESIGNED BY
DR. Y. NINOMIYA

S PAPER

JET FIGHTERS SERIES

P-80 SHOOTING STAR

CAMPACATURE

M

Assembly Kit

Dr. Yasuaki Ninomiya was awarded the Grand Prize in both the flight time and distance divisions at the First International Paper Airplane Contest (Pacific Basin Division) in San Francisco in 1967 and served as a judge in the Second Great International Paper Airplane Contest in Seattle in 1985.

THE REPORT OF THE PARTY OF THE

Racer 532 Dragonfly

Racer 533 Sparrowhawk

3 Racer 534 Heron

TriLinear 705

TriLinear 704

Messerschmitt Me-262

De Havilland VAMPIRE

@Lockheed P-80 SHOOTING STAR

North American F-86 SABRE

McDonnell Douglas F-4 PHANTOM II

Hawker Siddeley HARRIER

McDonnell Douglas F-15 EAGLE

■ General Dynamics F-16 FIGHTING FALCON

Dassault MIRAGE 2000

(D) Lockheed F-22

Instruction booklet

and design directions Assembly, flight, (68 pages)

■ Also included: Rubber band

Catapult

(GLUE NOT INCLUDED)

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■ Kit includes the following §

FLYING FUN FOR EVERYONE

When you fly your plane please keep the following in mind.

*Launch your plane in a large area away from people who might get hit.

*Don't fly your plane where cars will be passing by.

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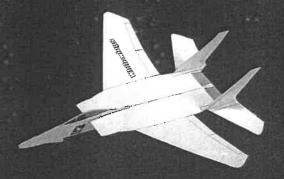
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Whitewings

ASSEMBLY INSTRUCTIONS
FLIGHT INSTRUCTIONS
GUIDELINE FOR WHITEWINGS COMPETITION
INTRODUCTION TO PAPER PLANE DESIGN
HOW TO BUILD "WHITEWINGS"



HISTORY OF JET FIGHTERS SERIES

Glue the middle part of the main wing firmly to the fuselage.

Arrow points forward fuselage. Glue the horizontal stabilizer (6) to the

Arrow points forward

@ 6

(A)

Θ

Fold all tabs outward.

Aligning the noses flush, glue ① through ⑧ together in the order shown. 2

FINISHING TOUCHES

Give the finishing touches to the plane after it dries thoroughly.

Camber the main wings carefully with your lingers.

10. Using the dihedral angle gauge make sure the dihedral angle for the main wing is 5' and for the wing tips 30'.
11. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings.

30

Camber the wings carefully.

TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Regular Planes on page 11 to 13.

angle is 5°

Camber the wing tips carefully.

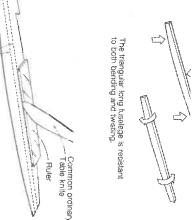
(E) using the gauge and then camber them as woll. -Camber both wing tips (4) and (6). Fold tabs on both ends of the main wing to form a 30° dihedral angle

Apply glue to the top surface of the folded tabs of the the wing is 30", using the again, check that the main wing. Attach wing tips

(1) and (3) respectively. Once dihedral angle at the tip of

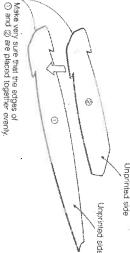
thy of the Whitewings' name. fuselage that accomodates the body construction of a large paper airplane. aerodynamic performance makes it woris resistant to bending and twisting. Its tion of the triangular long fuselage which time researching and designing a The result of theses efforts was the invenairplanes. That is why I have spent some

Make firm creases along the dashed lines of fuselage pieces ((1) & (2) using a common ordinary Avoid cutting through the dashed as a guide. table knife (blunt knife) and a ruler

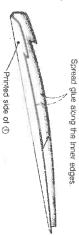


Make firm creases along the dashed lines

Spread glue evenly over the entire surface of ginted side of (2). Apply (2) to the unprinted side of (1). Make very sure that the edges of (1) and (2) that form the plane nose are placed together evenly, or flush, as shown in the diagram.



Before the glue dries, fold ① and ② along the croased dashed lines having ③ face inward. Then spread glue along the inner edges as shown.



Glue the inner edges together to complete the formation of the cross section as shown.

Cross section

no warps or bends. inner sides also draw

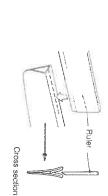
Look inside of the fuselage to make sure the inner side also draw no warps or bends. warps or bends before the glue dries front and back carefully straighten any View the fuselage closely from both the

Crass section

Let the fuselage dry completely by attaching clips or clothespins on the glued edges as shown. It takes at least 2 hours to dry.

Make a groove along the thick dashed line at the plane nose by carefully pressing down upon it with a ruler. The groove must be deeper at the tip of the line, should remain flat. The remaining area of the top of the fuselage, except for the thick dashed plane nose than at any other part.

Put glue into the groove at the tip of the plane nose and both inner sides of the plane nose and glue together.
Let it dry thoroughly (at least 2 hours) using a clip to keep the tip of the nose in place.



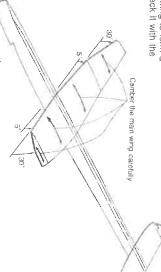
Cross section



Glue the main wing (③ + ④) firmly to the gluing position for the main wing on the fuselage. Make sure to align the center line of that of the fuselage. Glue (4) to the underside of (3). When dry, cut off the profruding the main wing with portions. Arrows point forward. Gluing position for the main wing Place a ruler along each of the outer lines of the main wing and bend each side up individually to make a dihedral angle of approximately 5° for both sides (3) of the main wing. Outer lines for the dihedral angle Arrow points forward. ---Cut the main wing (3) along the solid lines up to the dashed lines. Place a upward. resulting strips slightly ruler along the dashed line and bend the Gluing position for the horizontal stabilizer Glue the vertical stabilizers (a) and (a) to the tabs of the horizontal the folded tab lines of (2) stabilizer (2) aligning the arrows on (9) and (9) with shown. Fold both tabs of the horizontal stabilizer (2) as Arrow points forward

> 6) wing and attach the wing and (6) respectively as sho Once again, check that the dihedral angle at the wing (a) Apply glue to the top of the folded tabs of the r 30° using the gauge. Camber both wing tips (§)

both ends of the main wing to form a 30° dihedral angle. Check it with the Camber the main wing. Fold tabs on gauge.



FINISHING TOUCHES

- Give the finishing touches to the plane after it dries thoroughly,
- 11. Make the camber on the main wing even with your fingers.
- 12. Using the dihedral angle gauge, make sure the dihedral angle of the main wing is 5° and for the wing tips 30°.
 13. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings.

Assemble the fuselage following the assembly instructions for the triangular fuselage on pages 42 and 43.

TEST FLIGHT

position for the horizontal stabilizer on the fuselage firmly onto the gluing

stabilizer (① + (9) + (9))

Glue the horizontal

top. Make sure to align the center line of the

horizontal stabilizer

uselage with that of the

Assemble the fuselage following the assembly instructions for the triangular fuselage on pages 42 and 43.

Place a ruler along the outer lines of the main wing and bend each side up individually to make a dihedral angle of approximately 15" for both sides of the main wing.

underside of aligning

Glue (4) to the

portions. protruding dry, cut off the lines. When their center

Fold the tab of the vertical stabilizer (a). Glue (b) to the other side of the vertical stabilizer 6

Arrow points forward

Arrow points forward

Glue the vertical stabilizer (® + ②) to the gluing position for the vertical stabilizer on the fuselage. Make sure to align the folded tab line of the vertical stabilizer with the center line on the fuselage.

Glue the main wing (③ + ④) firmly to the gluing position for the main wing on the fuselage aligning its center line with that of **(4)** Gluing position for the main wing Outer lines for the dihedral angle Gluing position for the vertical stabilizer 6 stabilizer. Gluing position for the horizontal Arrow points forward. Fold ② along the dashed line at a 90° portions cut off the angle and then protruding

engine as shown.

remove it after the glue dries. \ B 8 **(4)** a

the ribbon (a) around the pin applying glue on the ribbon. After

passes through), wrap the propeller shaft hub (the part which To make the propeller

the pin out temporarily revalves smoothly, pull hub around the pin making sure that the

Glue the engine (® + ®) + (®) + (D) to the gluing

propeller into the back end of the engine, trim the propeller blades so that both blades are of equal revolves smoothly. length. Make sure the propeller After inserting the pin with the

> Curve the end of both propeller blades ((®) and (®) to fit around the hub as shown. Wrap the blades around the hub and glue ら

When dry, carefully twist the propeller blades in opposite directions as shown ယ်

gn.

FINISHING TOUCHES

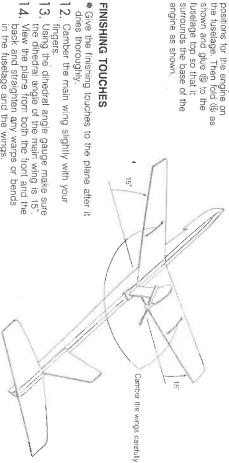
the fuselage

- Give the finishing touches to the plane after it dries thoroughly.
- 12. Camber the main wing slightly with your fingers.
- 13. Using the dihedral angle gauge make sure the dihedral angle of the main wing is 15.

 14. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings.

gluing position for the horizontal stabilizer on the fuselage. Glue the horizontal stabilizer (5) to the

TEST FLIGHT

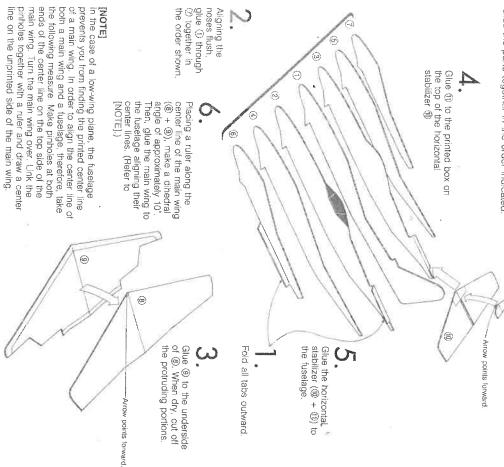


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had been carried forward and put into practical use in the Me-282 prior to any other country.

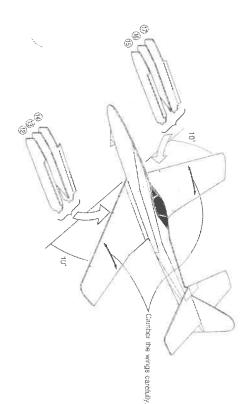
GLUING INSTRUCTIONS

Glue the parts together in the order indicated



After folding the tabs, glue together ®, (ii) and (iii) to make the left engine and (ii), (iii) and (iii) for the right engine.

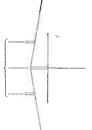
Using the engine installation lines on the upperside of the main wing as a guide, glue the two engines to the underside of the main wing. α



FINISHING TOUCHES

- Give the finishing touches to the plane after it dries thoroughly
- 11. Fix the engines to ensure the vertical Camber the outer sides of the main wing from the engines carefully with your fingers.
 Place the dihedral angle gauge at the underside of the main wing and make sure the dihedral angle for the main wing is 10. fuselage line and the engines are parallel when viewed from the front.
- 12. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings.

TEST FLIGHT



Make the three parallel

Referring to the figure, glue the rear tabs of the front fuselage to close the slit.

View of the front fuselage from the back

using the center guidelines on main wing, install the fuselage

finding the center line of the

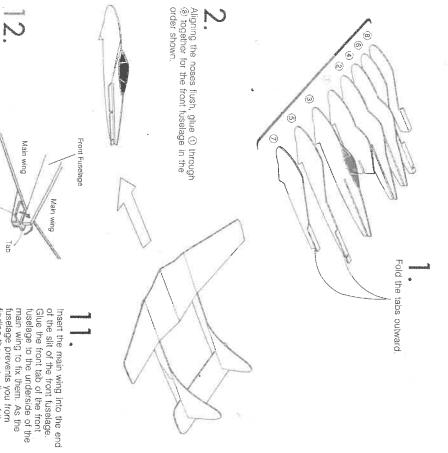
the main wing.

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GLUING INSTRUCTIONS

Glue the parts together in the order indicated.

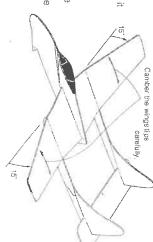


Aligning the noses flush, glue (3) through (6) together for the rearright fuselage in the order shown. wing. Using the installation lines for left and right fuselages as a guide, glue both the underside of the main rear -left and rear -right fuselages to the Aligning the noses flush, glue (a) through (b) together for the rear - left fuselage in the order shown (3) 6 9 (3) (3) outward Fold the tabs Camber the wings tips Placing a ruler along the installation lines for loft and right fuselages on the main wing, make a dihedral angle of approximately 15' for both sides of the gauge.) main wing. (Use a dihedral angle (3) Bridging the horizontal stabilizer (9) between loft glue it to the fuselages. and right rear fuselages .Fold the tabs outward.

FINISHING TOUCHES

- Give the finishing touches to the plane after it dries thoroughly.
- 13. Camber the wing tips carefully with your fingers.
- 1.4. Using the dihedral angle gauge, make sure the dihedral angle of the outer of the main wing tips are both 15°.1.5. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings.

TEST FLIGHT



a characteristic feature of P-80. T-33 Jet Trainer Plane which is now being used is the two-seat plane based upon P-80.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.

Aligning the noses flush, glue (1) through (2) together in the order Glue the horizontal stabilizer @ to the tuselage. Glue (a) to the printed box on the top of the horizontal stabilizer (a). Fold all tabs outward.

 ∞

Arrow points forward.



FINISHING TOUCHES

Give the finishing touches to the plane after it dries thoroughly.

10. Camber the main wing slightly with your fingers.

Place the dihedral angle gauge at the underside of the main wing and make sure the dihedral angle for the main wing is 13°.
 Make sure the tip tanks are bent at 90° to the main wing.
 View the plane from the front and the back and straighten any warps or bends in the fuselage and the wings.

Place a ruler along the center line of the main wing (® + ®), make a dihedral angle of approximately 13° for both sides of the main wing. Then, glue the main wing to the fuselage aligning their center lines. (Refer to [NOTE] on page 48.)

TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13.

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13:

tip tanks of the main wing (8). Glue parts (1) and (1) respectively to the inside of the

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extra 2 - 3mm margin along the front and back Bend the tip tanks of (a) (the backing of the main wing) downward 90°. (For this P-80, it is easier not to cut (a) out with on

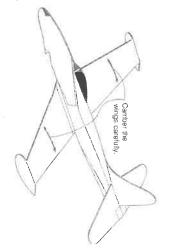
points forward.

9

(9)

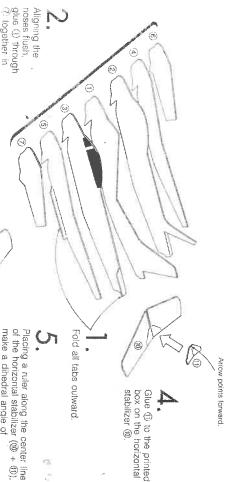
lines.)

Spread glue entirely on the printed side of (a) including the tip tanks. Then, glue (a) to the underside of the main wing (b) and let it dry thoroughly.



GLUING INSTRUCTIONS

Glue the parts together in the order indicated.



Placing a ruler along the center line of the horizontal stabilizer ((® + (®)), make a dihedral angle of approximately 7. Then, glue it to

the order shown (8) together in

3

the order shown

Arrow points forward. -

@

dry, cut off the Glue (9) to the underside of (8) When

Arrows point forward

FINISHING TOUCHES

proximately 10° using the dihedral angle gauge. Then, glue the main wing firmly to the fuselage. (Refer to [NOTE] on page 48.) Place a ruler along the center line of the main wing (® + ®) and make a dihedral angle of ap-

- Give the finishing touches to the plane after it dries thoroughly.
- Camber the main wings carefully with your tingers.
- 9 00 Using the dihedral angle gauge, make sure the dihedral angle for the main wings sure the dihedral engle for the main wings are 10° and for the horizontal stabilizer 7°. View the plane from both the front and the back and straighten any warps or bends in the fuselage and wings.

TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13.

54

Camber the wings carefully protruding portions.

FINISHING TOUCHES

- Give the finishing touches to the plane after it dries thoroughly
- Camber the wing tips carefully with your fingers.
- 8. Using the dihedral angle gauge make sure the dihedral angle for the wing tips are 23° and for the horizontal stabilizer minus 12°.
- 9. View the plane from both the front and the back and straighten any warps or bends in the fuselage and wings.

TEST FLIGHT

Glue the parts together in the order indicated GLUING INSTRUCTIONS established. Its rirst flight was in 1958 (3)



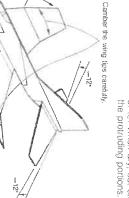
Place a ruler along the center line of the horizontal stabilizer (f) and make a dihedral

firmly to the fuselage. Turn the horizontal stabilizer (i) upside down and glue it

[NOTE] on page 48.) approximately 23 a dihedral angle of Placing a ruler along the lines on the wing tips, make their center lines. (Refer to firmly to the fuselage aligning Then, glue the main wing

0

Glue (ii) to the underside of (ii). When dry, cut off

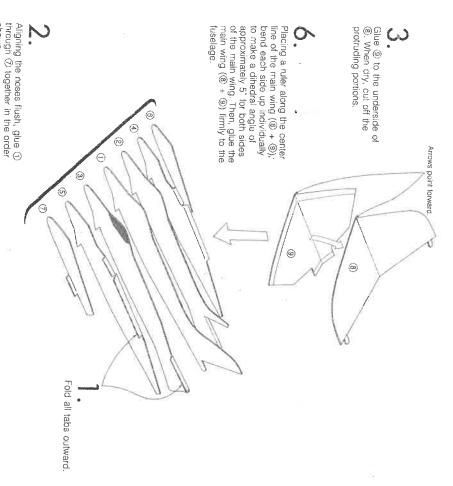


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מות most successful S/VTOL fighter in the world.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.



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Arrow points forward.

Glue (1) to the printed box on the top of the horizontal stabilizer (ii)

the fuselage. Glue the horizontal stabilizer (@ + @) to

(3)

Roll up (a) with your fingers in advance keeping the printed side of (b) facing outward. Then glue (b) to the tab of the lower part of the fuselage aligning the center line of (a) with the center of the fuselage.

Glue both edges of (2) to each tab of the upper part of the fuselage. Camber the main wing carefully.

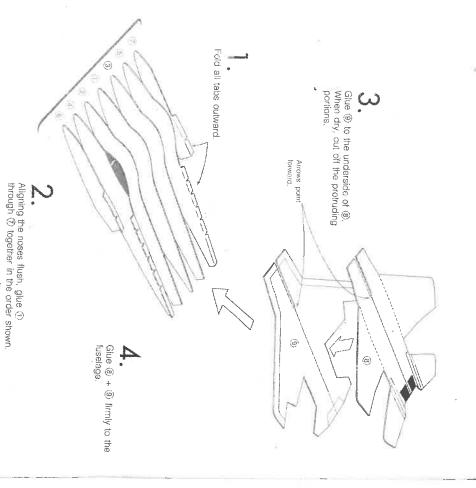
FINISHING TOUCHES

- Give the finishing touches to the plane after it dries thoroughly.
- 9. Camber the main wings slightly with your fingers.
 10. Using the dihedral angle gauge, make sure the dihedral angle for the main wing is 5°.
- 11. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings.

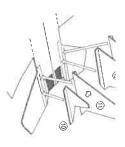
TEST FLIGHT

fighters since this development, its first flight was in 1972.

Glue the parts together in the order indicated.



Next, glue (1) to the side of (1) and (1) to the side of (2).



Placing a ruler along the dashed line, bend the main wing slightly upward to make a dihedral angle of approximately 5°

Camber the wings carefully.



- Give the finishing touches to the plane after it dries thoroughly.
- 8. Camber the main wings carefully with your fingers.
 9. Using the dihedral angle gauge, make sure the dihedral angle for the main wing are 5° and the vertical stabilizers 90°.
 10. View the plane from the front and the back and straighten any warps or bends in the fuselage and wings.



TEST FLIGHT

GLUING INSTRUCTIONS first flight was in 1974. performance, more of these are in commission than F-15 and more countries employ this plane. Its

Stit for horizontal stabilizer

Glue the parts together in the order indicated and dry it thoroughly Glue ① and ② together (0) Silt for main wing

Aligning the folded tab lines of (3) and the main wing and the horizontal stabilizer will be inserted. Cut out the two slits into which **(4**)

(3)

Place a ruler along the dashed line of (3) and fold the tab outward.

(4)

Do the same with part

(-)

② with the upper edges of two sits on (① + ②), glue ③ and ④ onto each side of the fuselage (① + ②) so that the slits are not covered by parts ③

Again, use the pinholes the plane flies. should be visible when with printed side down. The logo horizontal stabilizer except this time, Insert and glue the main wing to the fuselage in the same way as the

the center line. as the guide to

Glue

Center line guide pinholes

touch the glue except at the center. Fixing the center part of the

up), when inserted into the slit, does not stabilizer (printed side so that the horizontal these tabs downward

horizontal stabilizer to the body, glue it in

Arrows point forward.

0

Center guidelines: When the main wing is inserted into the fuselage, find the center part of the wing using these center guidelings. Make pinholes through the center guidelines so that you can find the center from the underside of the

> Glue ② through ⑩ to the fuselage in the order shown. Place a ruler along the dashed line of ⑤ and fold it outward. Do the same with . 6 (9) 6 carefully. Camber the wings Glue (a) and (b) respectively to each side of the fuselage.

FINISHING TOUCHES

• Give the finishing touches to the plane after it dries thoroughly

Arrow points forward.

upside-down.

Then,

Turn the fuselage

apply glue on the tabs only along the rear slit (See figure). Bend

Using a ruler, make the dihedral angle of ly made. dihedral angle gauge on them to check lizer in the same manner. Place angle of minus 7° on the horizontal stabithat the dihedral angles have been propertab where it is not glued. Make a dihedral 10° on the main wing at the end of the flat the



- <u>.</u> Camber the main wings slightly with your fingers
- 14. Bend both trailing edges of the horizontal stabilizer upward by to do this, or the plane approximately 1 - 2 mm (1/16"). Do not forget

15. View the plane from both the front and the back and straighten any warps or bends the fuselage and wings.

TEST FLIGHT

- Test fly the plane according to the Test Flig to 13. instructions for Regular Planes on pages
- If your plane tends to dive down or if it flin trailing edges of the horizontal stabilize Keep bending the part just a fraction mo until you get a straight flight. upside - down when going upward, the reason might be insufficient bending on the

Glue ® to the underside of ®. When dry, cut off the protruding portions.

The design of the state of the

GLUING INSTRUCTIONS

Glue the parts together in the order indicated

outward Fold the tabs

aligning the center line of the main wing with that of the fuselage. (Refer to underside of the main wing and glue the main wing to the fuselage center line on the wing accurately, draw the order to glue the main projection into the slits. In catapult and the rear main wing ② inserting Spread glue on the tabs on the fuselage. Then, both the hook for the glue the fuselage to the Aligning the noses flush, glue (1) through (6) together in the order shown. **6 (4)** (0) 0 wing covering the rear projection of the underside of the main Glue folded (8) to the (i) 6

> wing ②. (Use a cutter.)

slits on the main Cut out the two

FINISHING TOUCHES

[NOTE] on page 48.)

tuselage.

- Give the finishing touches to the plane after it dries thoroughly.
- Turning up gently the wing from the wing root, make a dinedral angle of Place the dihedral angle gauge at the approximately 8°.
- underside of the wing and check the dihedral angle is 8°.

 8. Bend both trailing edges of the wing up by approximately 3 mm (1/8"). Don't forget this, or the plane won't fly.

 9. View the plane from both the front and the

 ∞

9 in the fuselage and the wing back and straighten any warps or bends

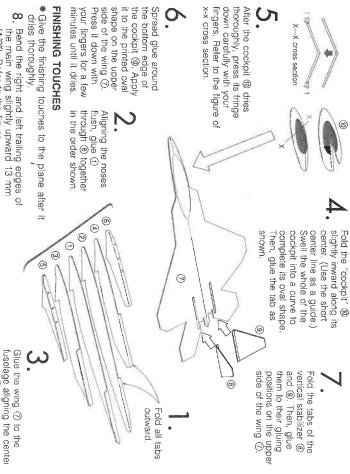
TEST FLIGHT

Test fly the plane according to the Test Flight instruction for Delta wing plane on page 13.

before been realized in war planes, its mass production is expected in the rate 1990's.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated



as shown. printed side outward Fold (a) with the

(co)

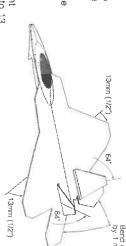
- Bend the right and left trailing edges of the main wing slightly upward 13 mm (1/2"). Refer to the figure.
 Bend both trailing edges of the horizontal stabilizers upward by 1 mm (1/32"). Refer

tuselage.

line of (2) with that of the

- to the figure.

 Tilt the two vertical stabilizers respectively outward (64*). Put the gauge between the vertical stabilizers to make sure of the angles
- 1) View the plane main warps or bends back and straighten any warps or bends in the fuselage and the main wing. View the plane from both the front and the



wing a MOST (Modified Saddle wing. It is constructed as follows. the wing resembles a so-called saddle Because the shape of the central part of shaped surface in math, I call this type of

CAUTION 1

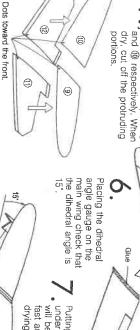
dihedral angle may change according to the model, be careful when you use these Racer 533. As the part numbers and instructions for other models. The parts numbers used below are for the

CAUTION 2

with step 0. When constructing the Racer 534, start

the undersides of parts (9)

Glue parts (1) and (2) to



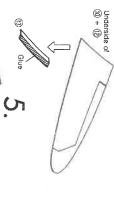
Using a ruler along the center line fold part (a) from the center line to make a 15° angle on both sides. Then curve it carefully with

your fingers to fit the curved edge of the fuselage top where the main wings are to be attached. • front

Arrow points forward.

the front.





In the same manner as in 4 attach (9) + (11) to the other side of (13) Putting folded stands

drying. fast and thorough will be conducive to under the main wing

Folded paper stands 햐

Cut parts (a) and (b) along the solid lines up to the dashed lines. Then placing a ruler along the dashed line, bend the resulting strips. slightly upward. Dots toward the-@

Borolow o Choi Fr

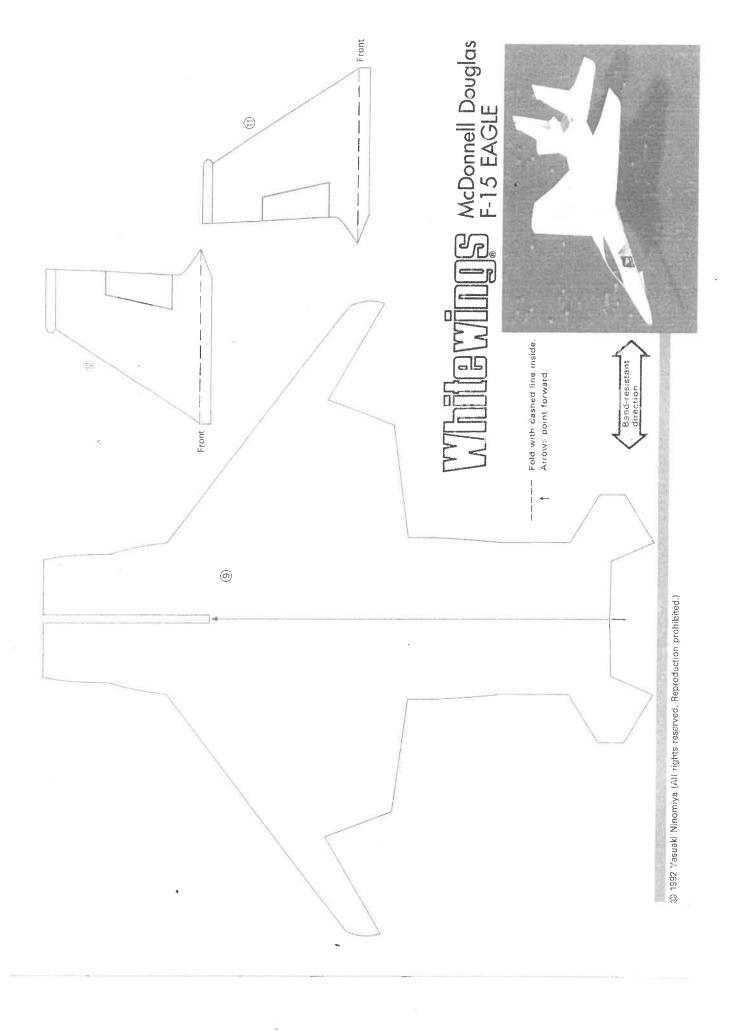
airplanes. his present hobby and business of designing and building paper airplanes since early childhood, an interest which later developed into Dr. Yasuaki Ninomiya, born in 1926, has been fascinated by

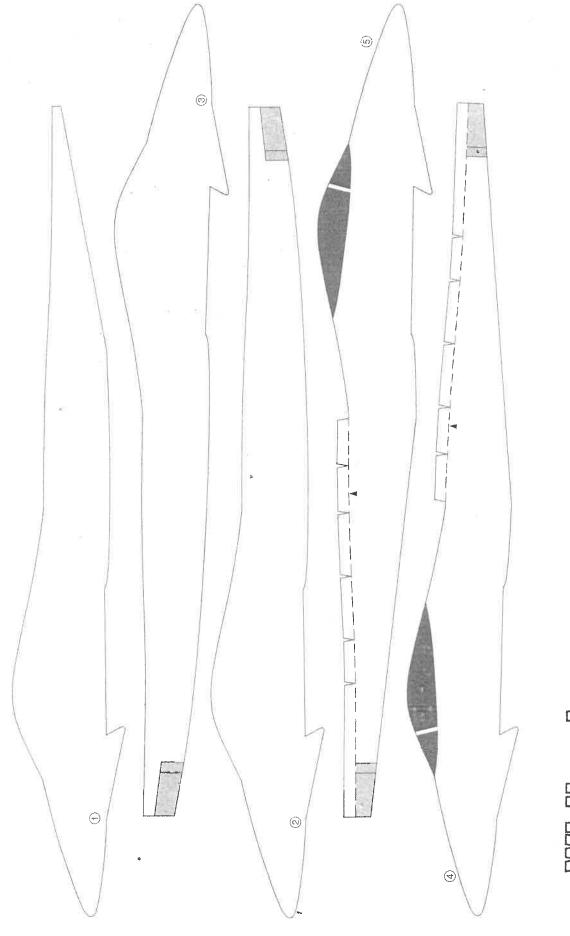
sociation and has been a member of the Good Design Committee of 1977. He is currently a member of the Japan Industrial Designer's Asof the Iranian government, he served as principal advisor of the joint Electrical Communications Laboratory of the Nippon Telegraph and ment theory. He is recognized as a pioneer in microwave communica-He received his doctorate in 1962 in the field of microwave measurethe Ministry of International Trade and Industry. Japan-Iran Electronic Communications Research Center from 1975 to Telephone Corporation from which he retired in 1984. At the invitation tions engineering from his work as a leading researcher at the

in the 2nd Great International Paper Plane Contest, held in Seattle Basin Division) in San Francisco in 1967. He later served as a judge mechanical functionality. Convincing evidence of his talent is his garnering of the grand prizes in the Duration Flight and Distance Washington in May 1985. Flight categories of the 1st International Paper Plane contest (Pacific paper planes based upon principles of industrial design and Ninomiya designs aviationally sound and sleek, high performance Drawing upon this distinguished background and expertise, Dr.

operator's license and tries to get into the pilot's seat of his Cessna type models to profile models. planes. He has designed a wide variety of planes ranging from racer Dr. Ninomiya is widely recognized as a respected authority on paper 182 whenever his busy schedule permits. He also holds a private plane



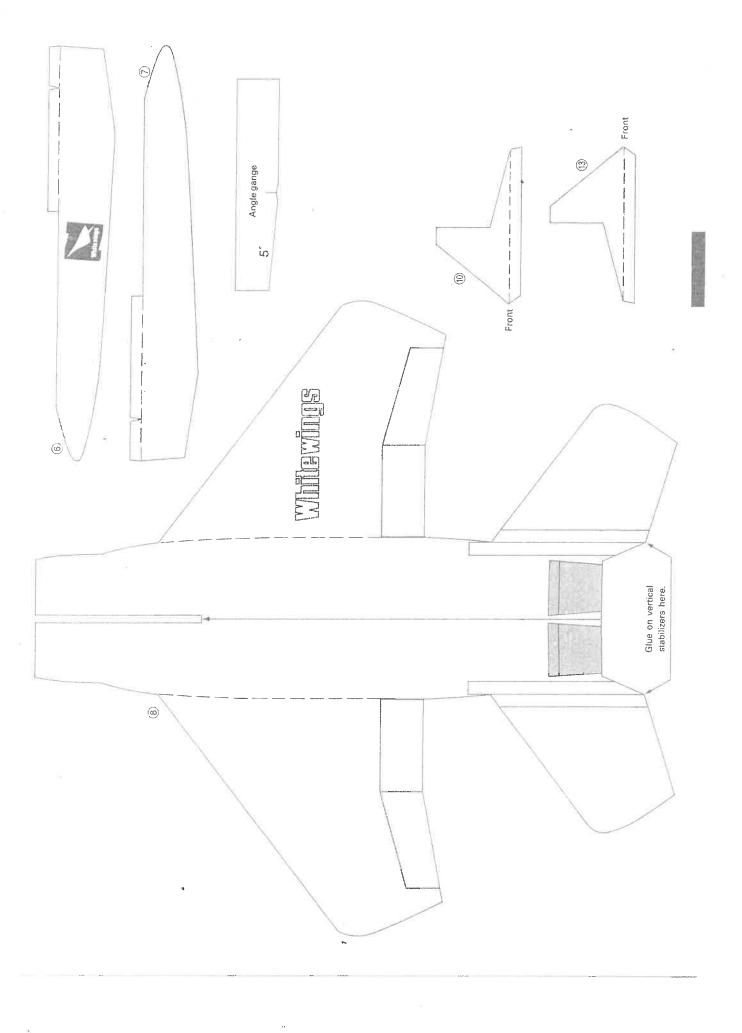


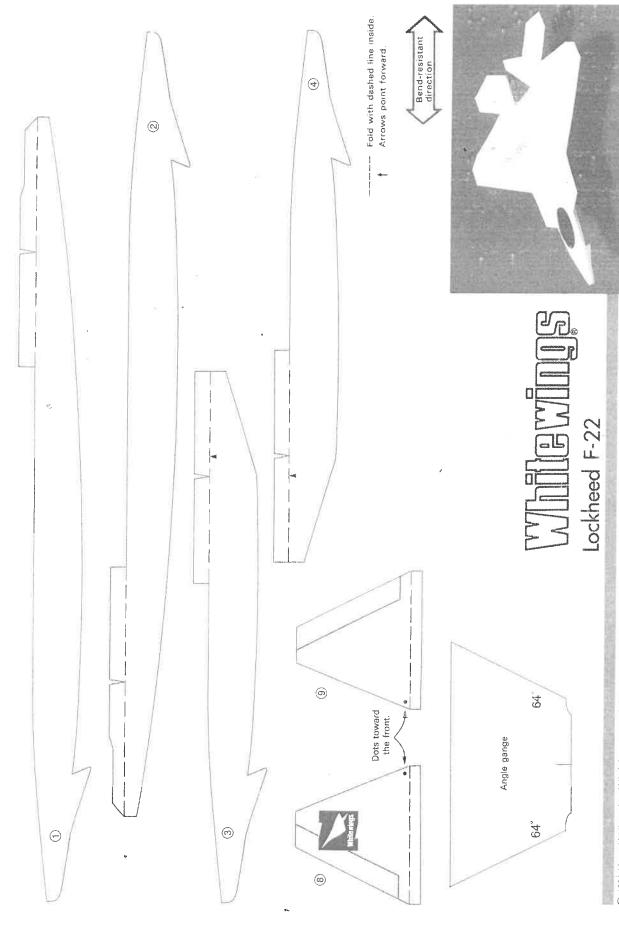


McDonnell Douglas F-15 EAGLE

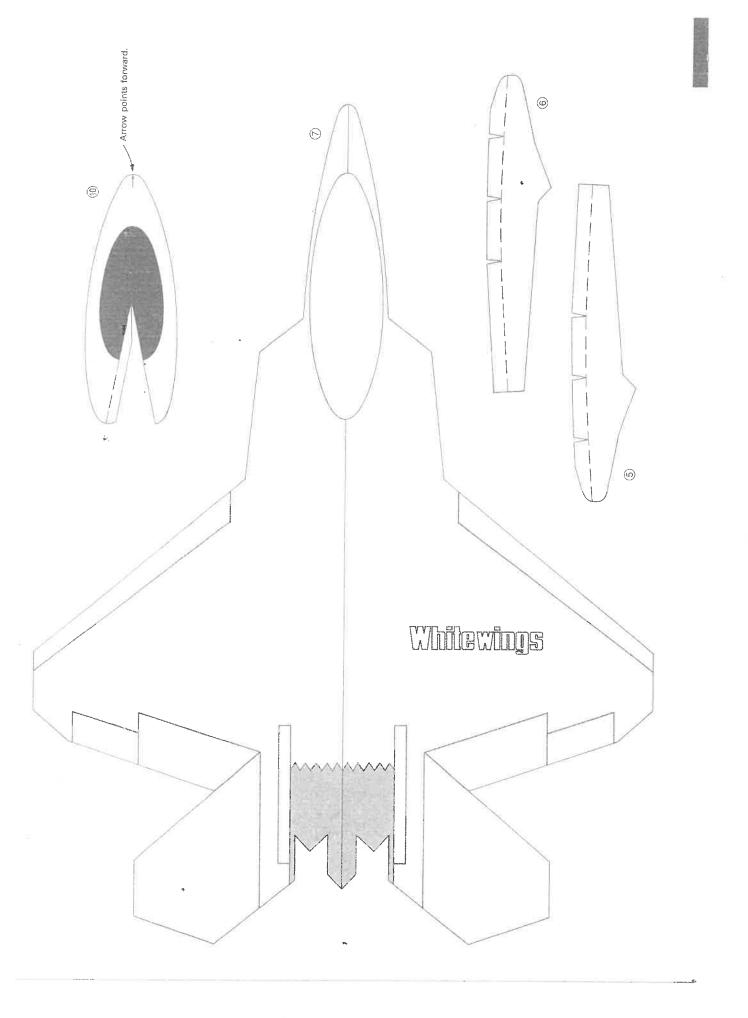
Bend-resistant . direction

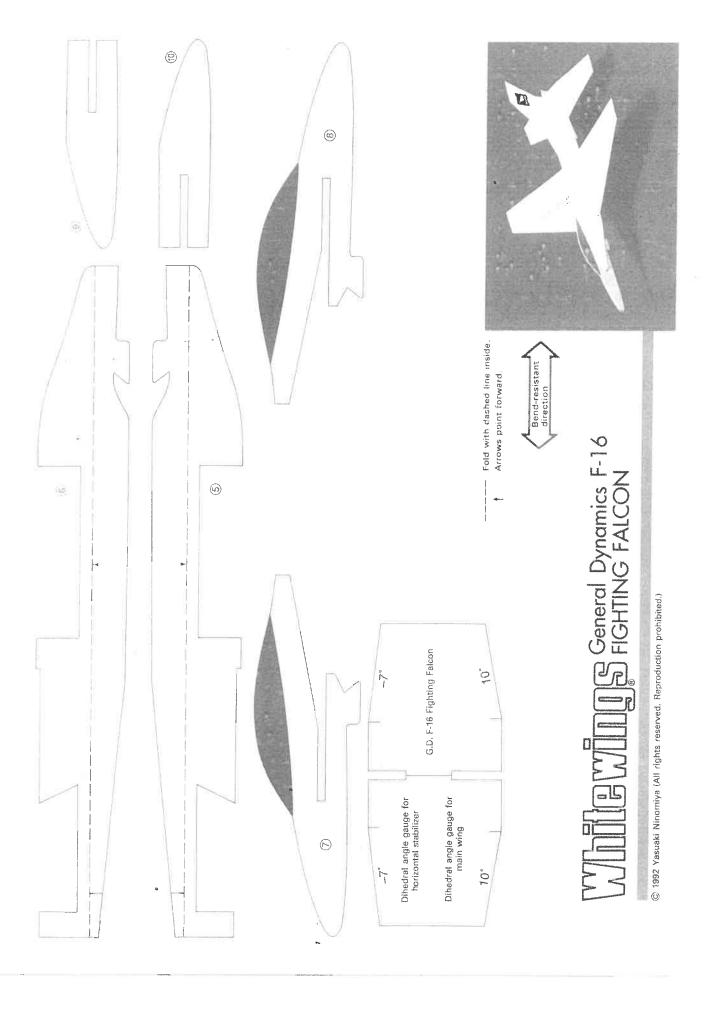
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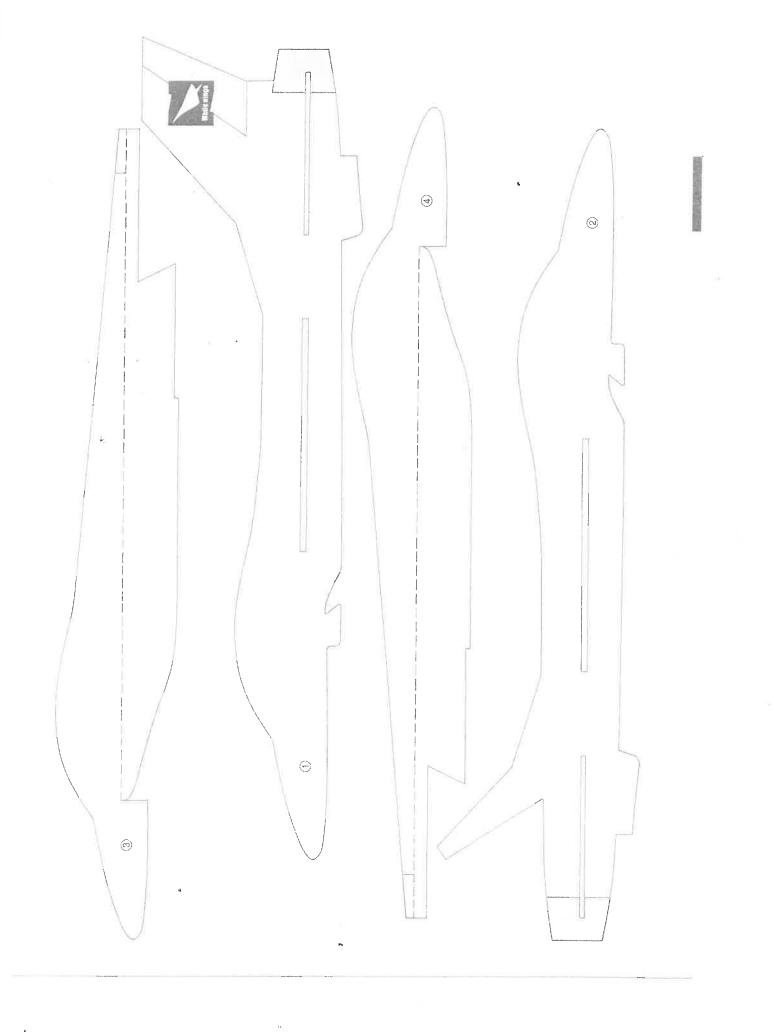


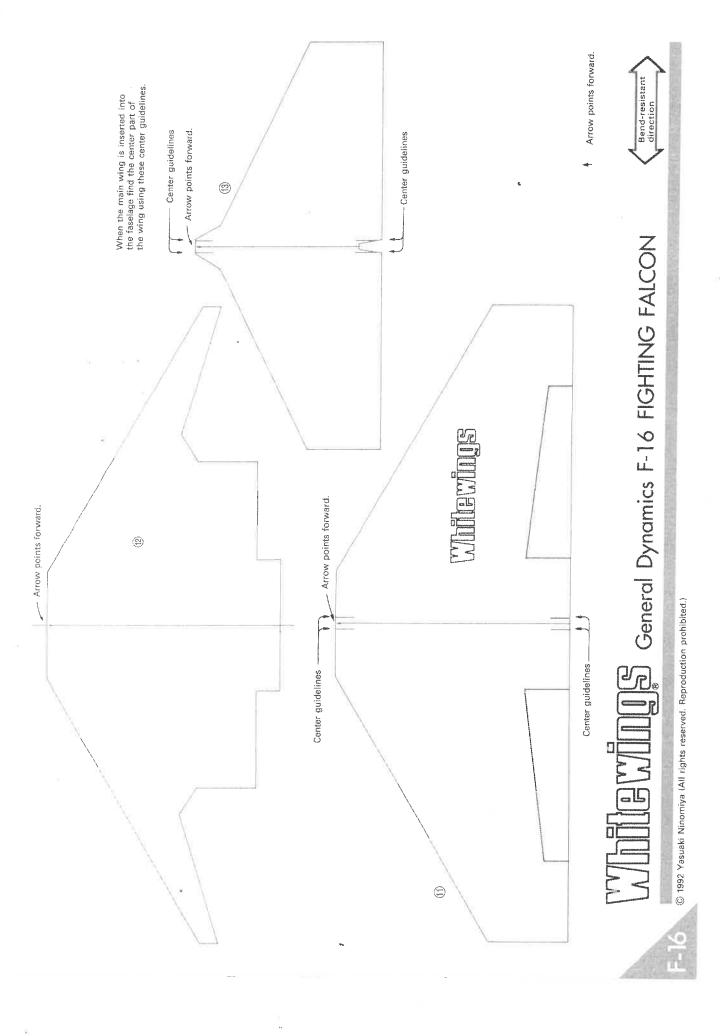


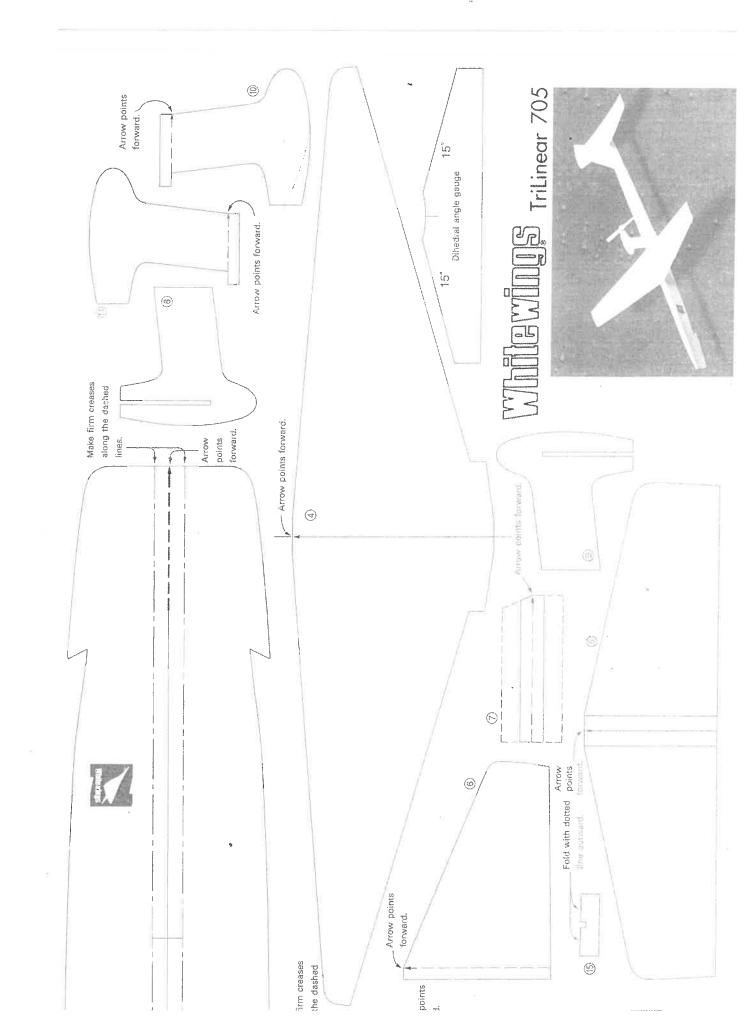
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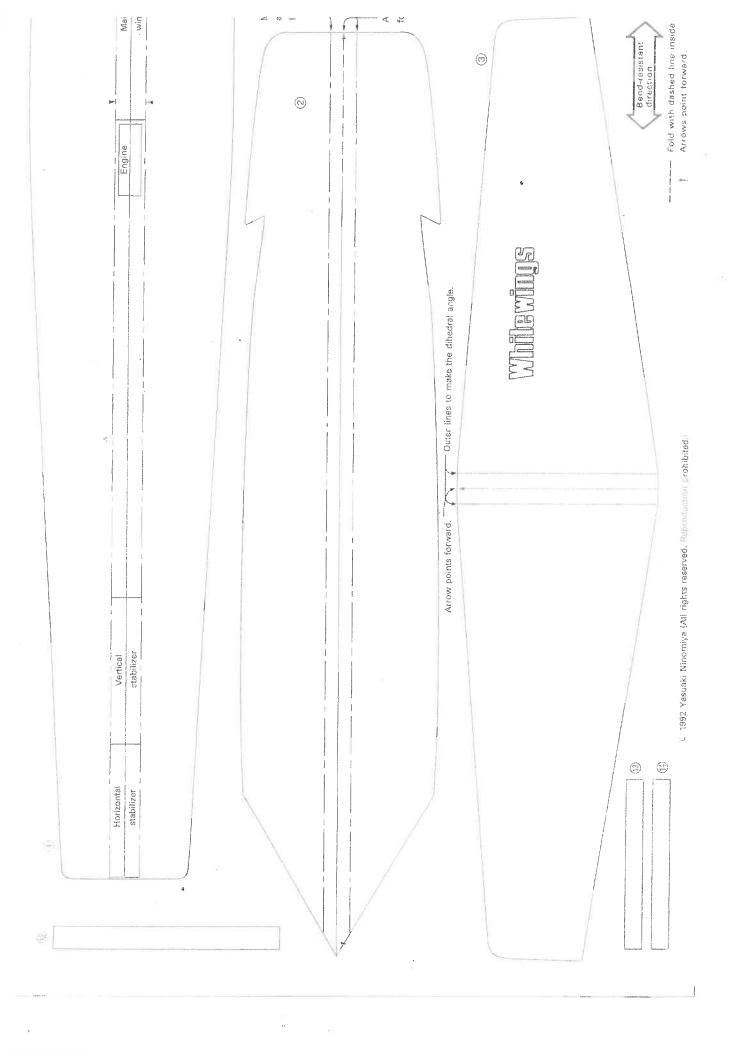




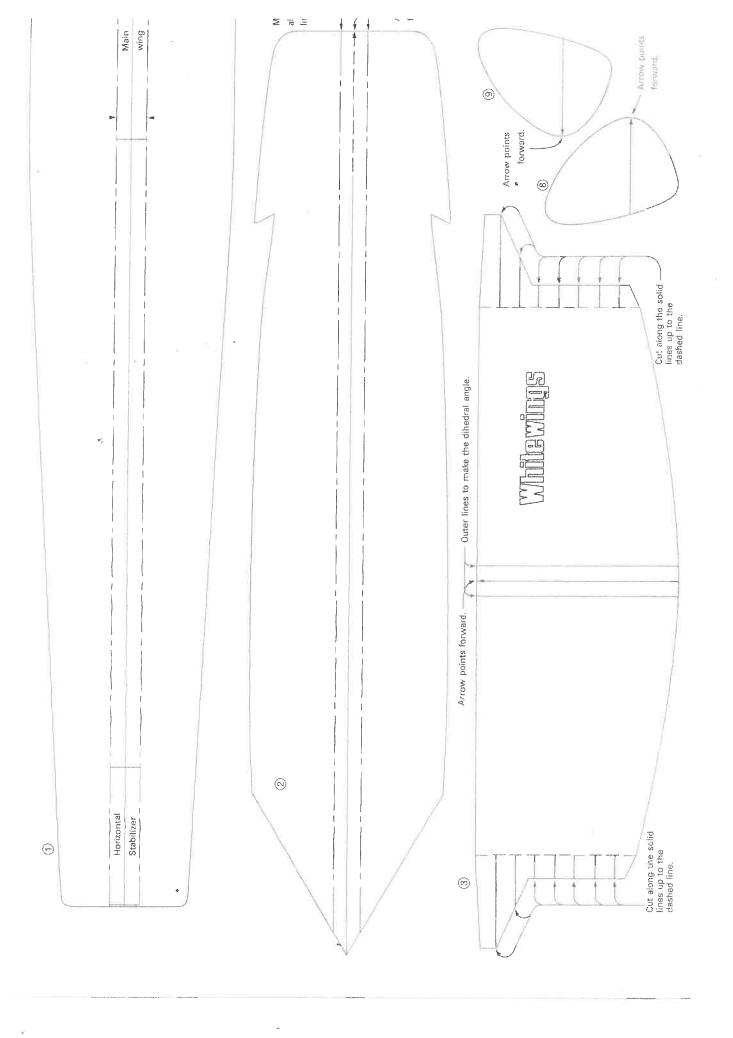


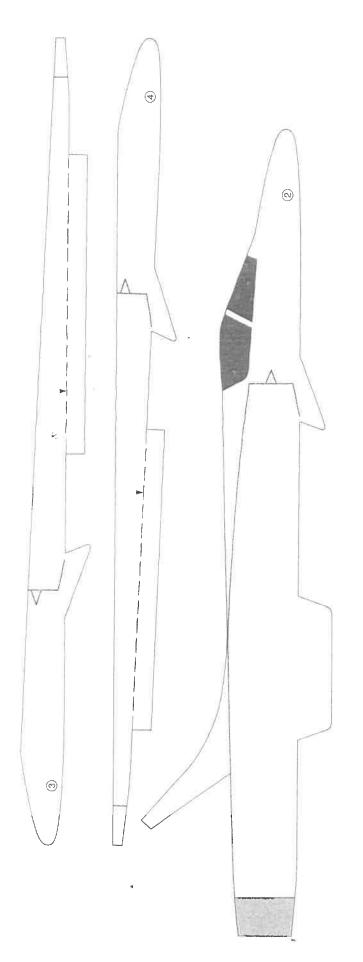






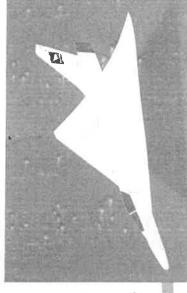
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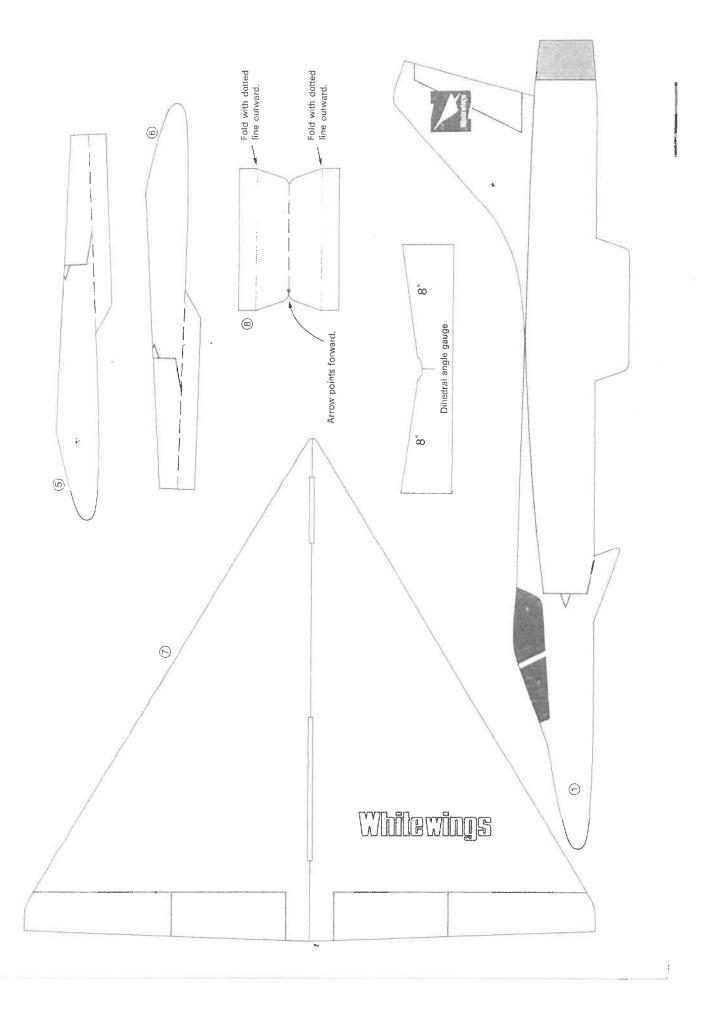


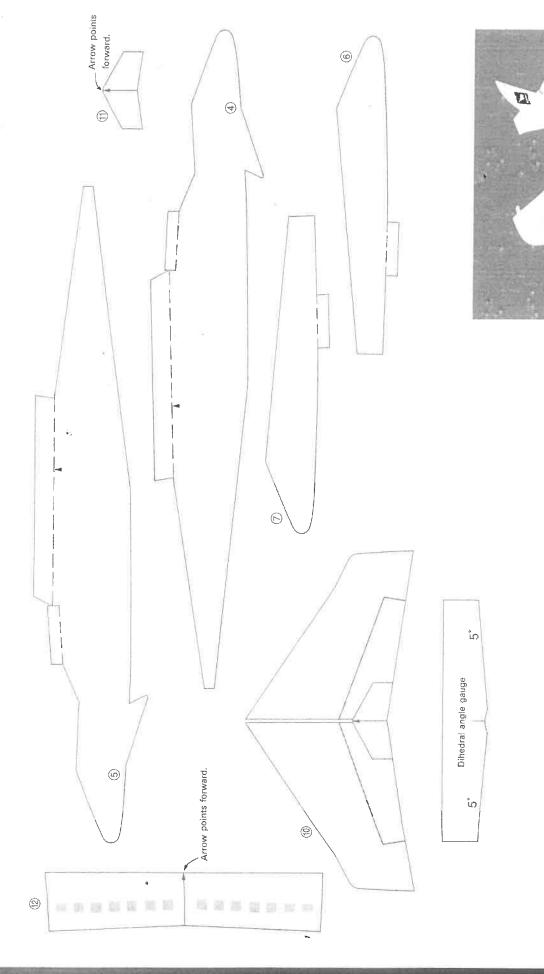






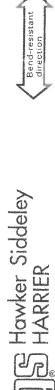
MIRAGE 2000



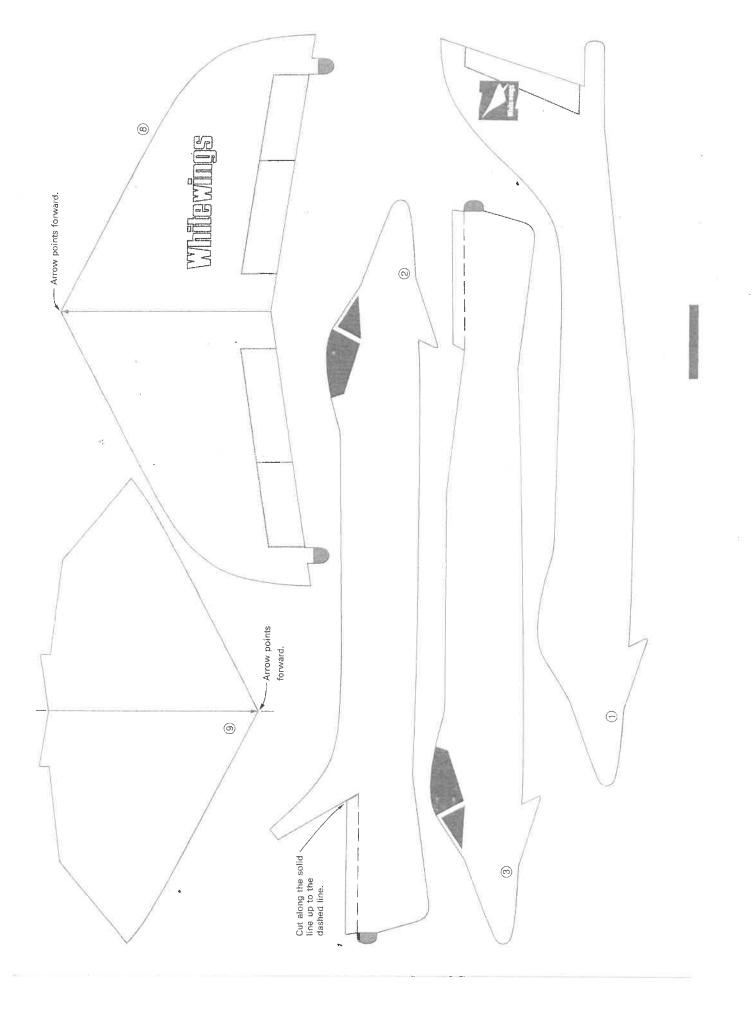


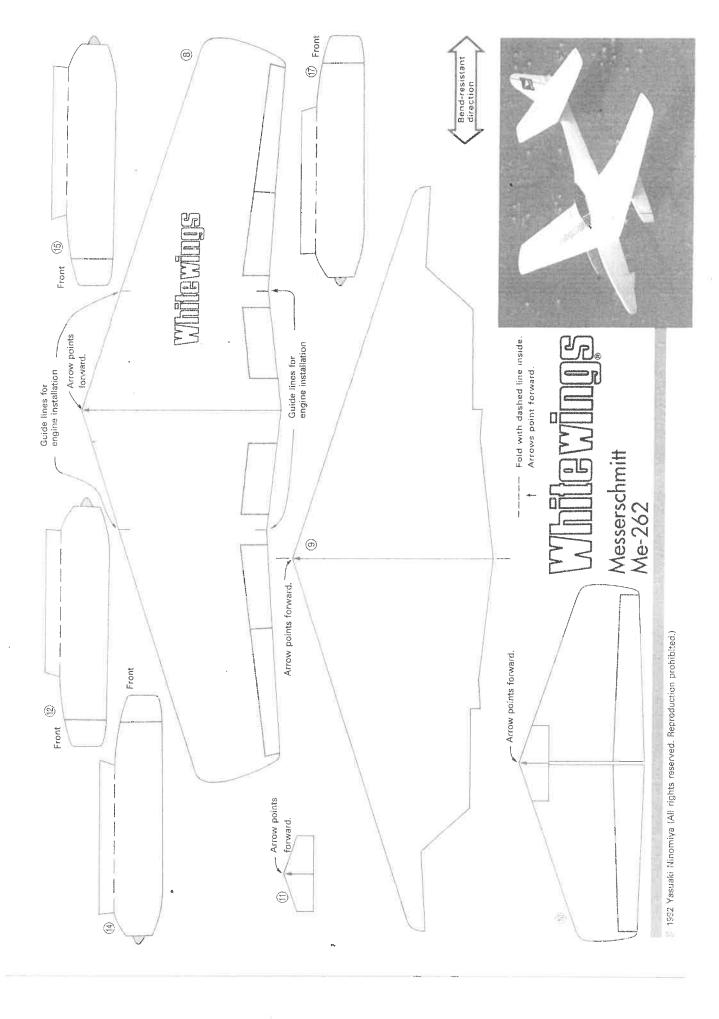
Fold with dashed line inside. Arrows point forward.

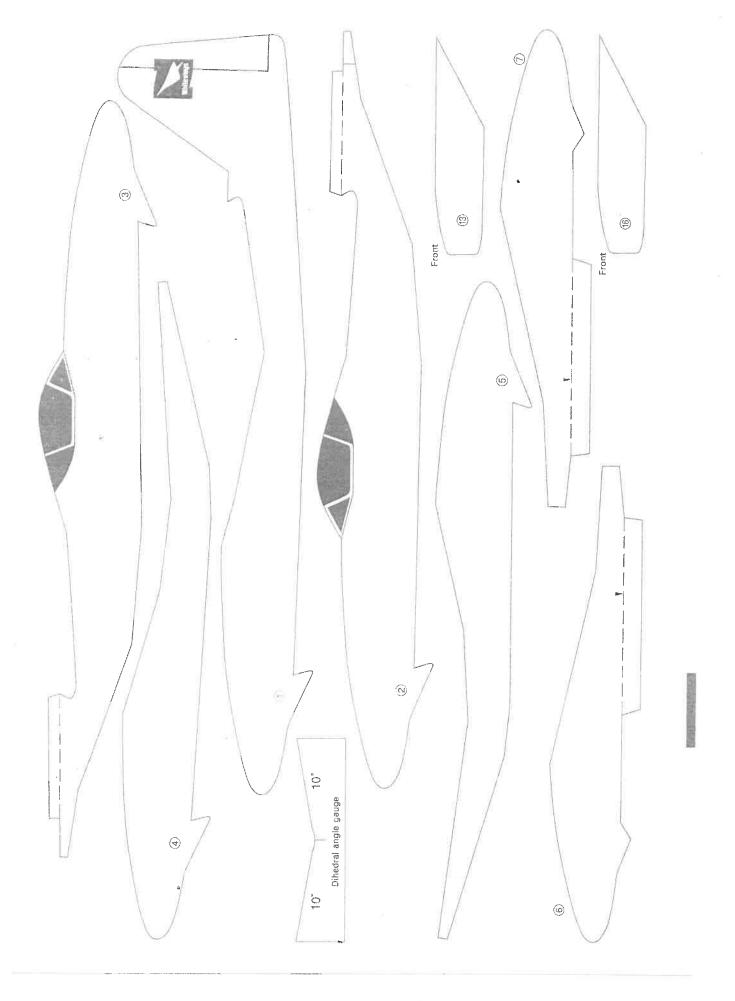


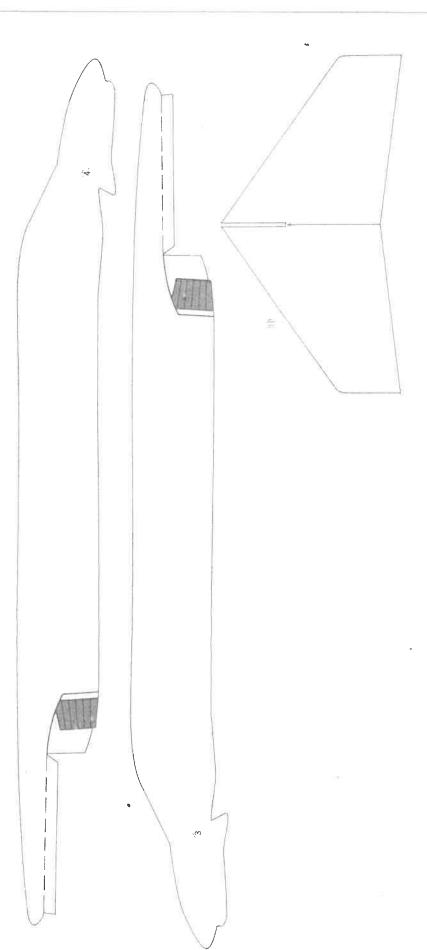


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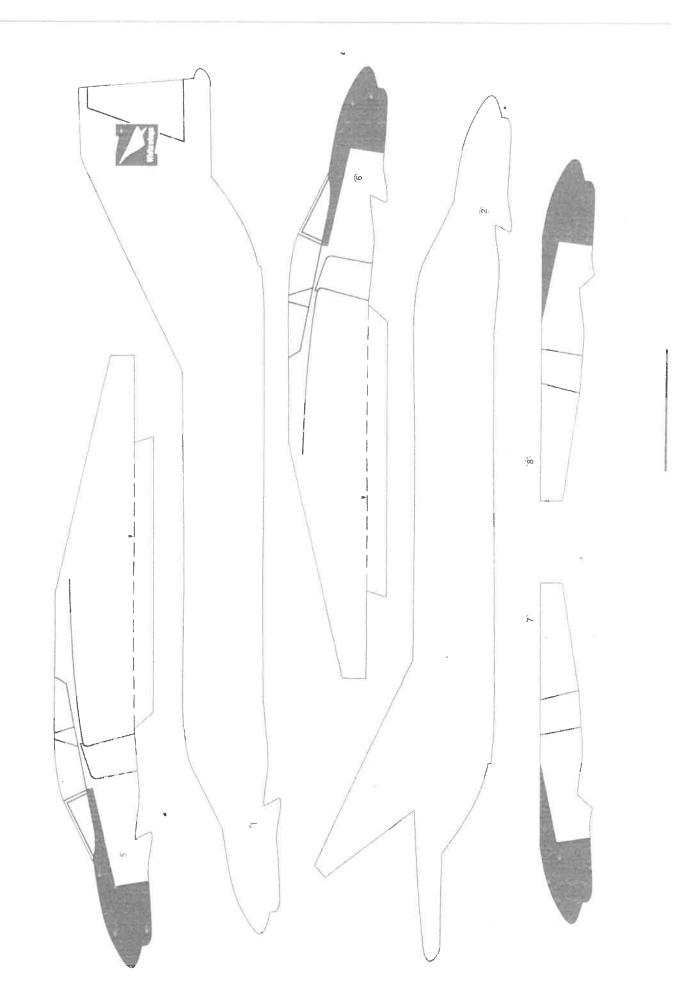
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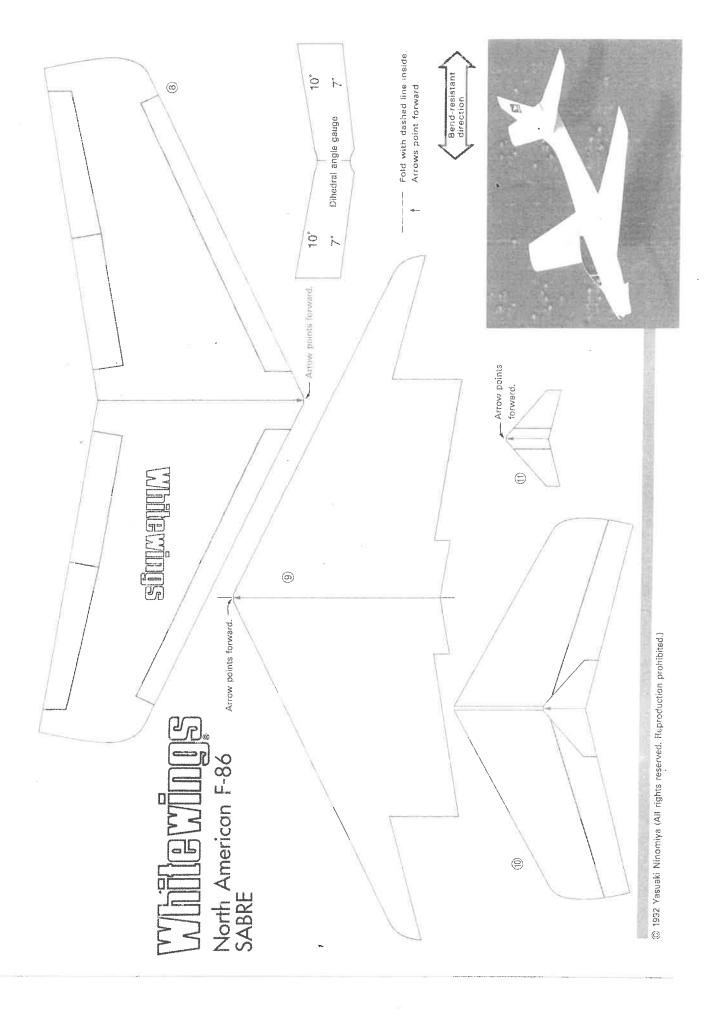


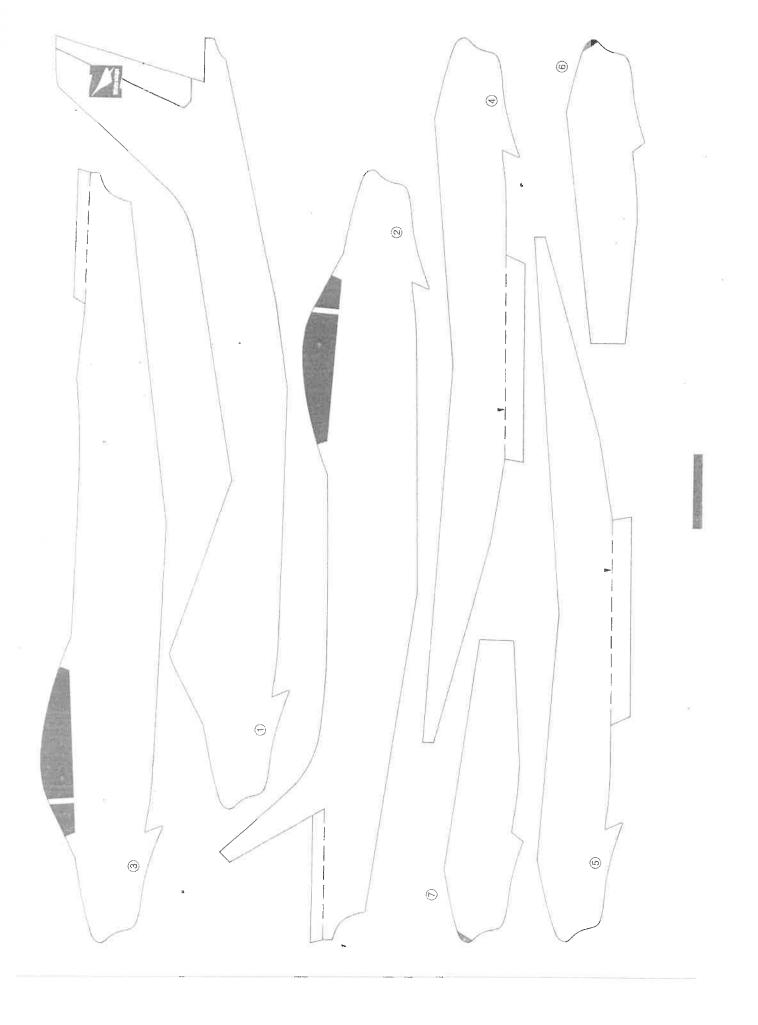


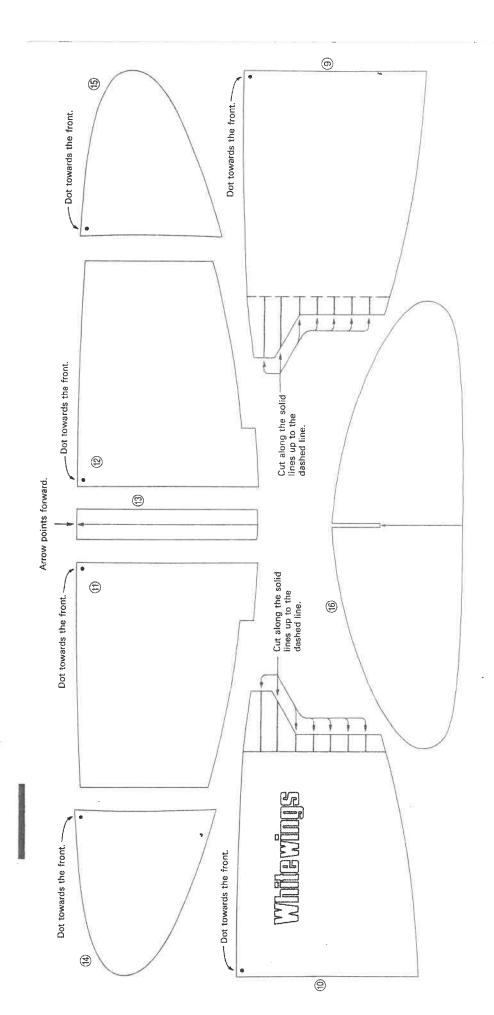
WINDERFER McDonnell Douglas F-4 PHANTOM II

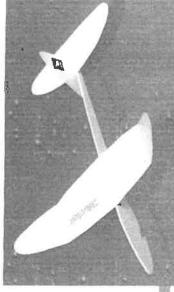
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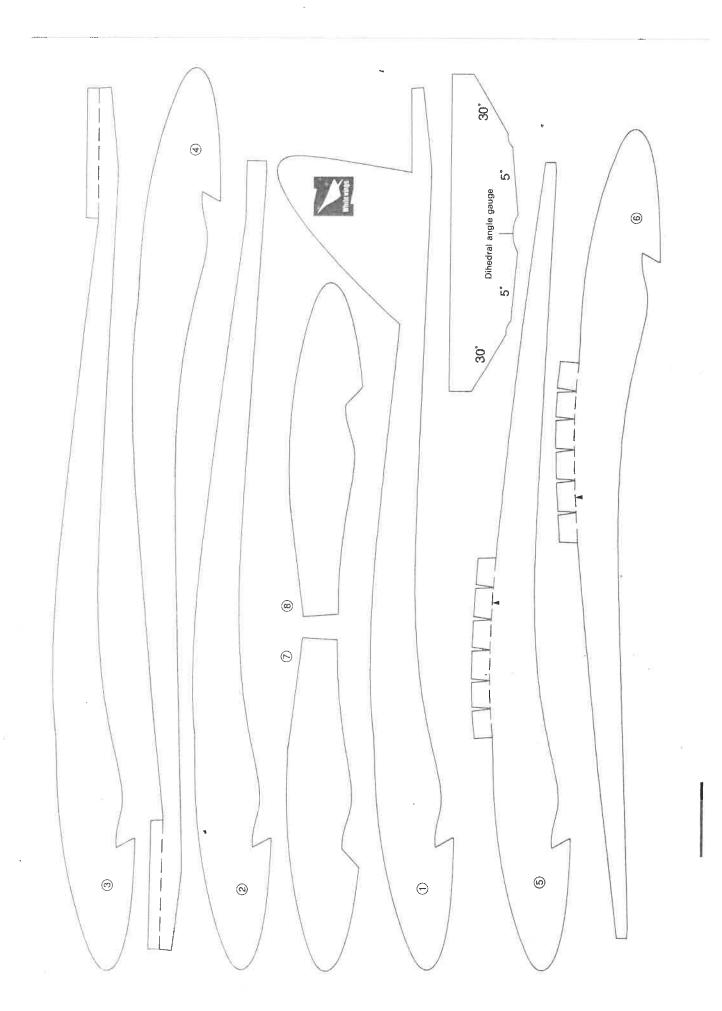


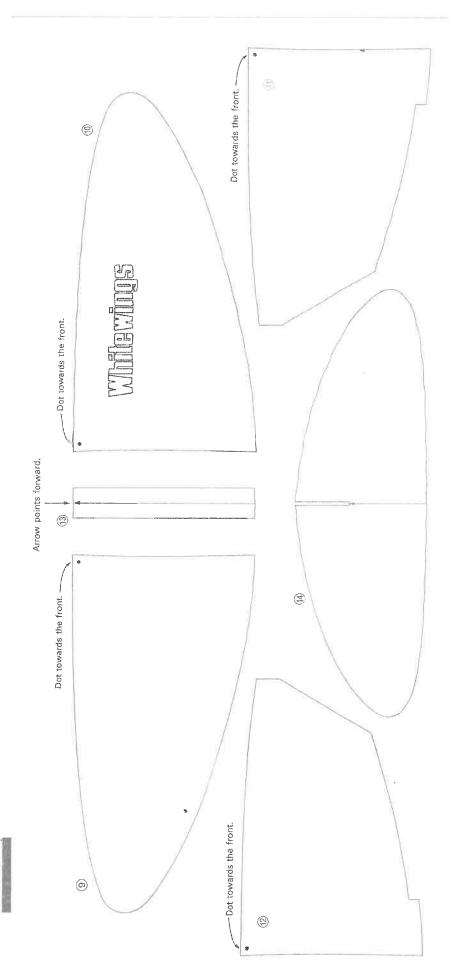
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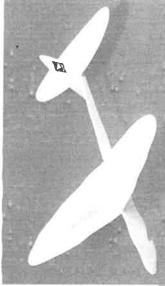


Racer 534 Heron

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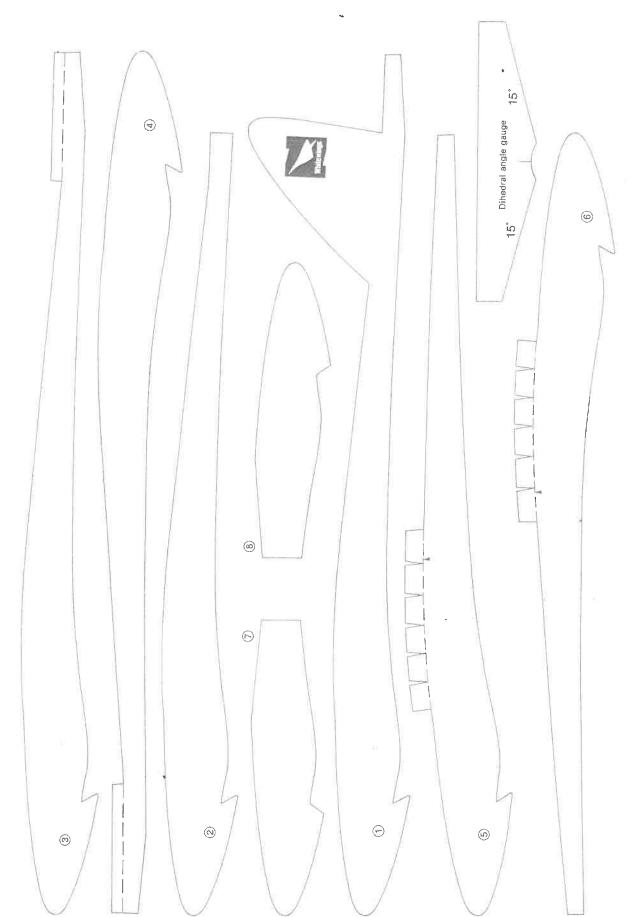
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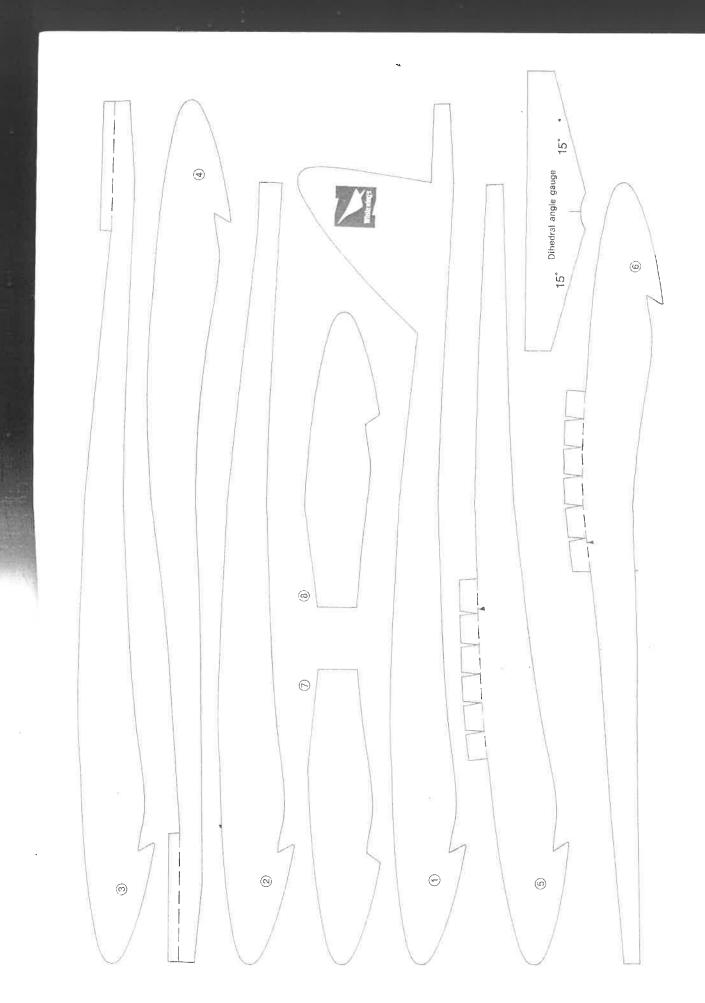
Bend-resistant

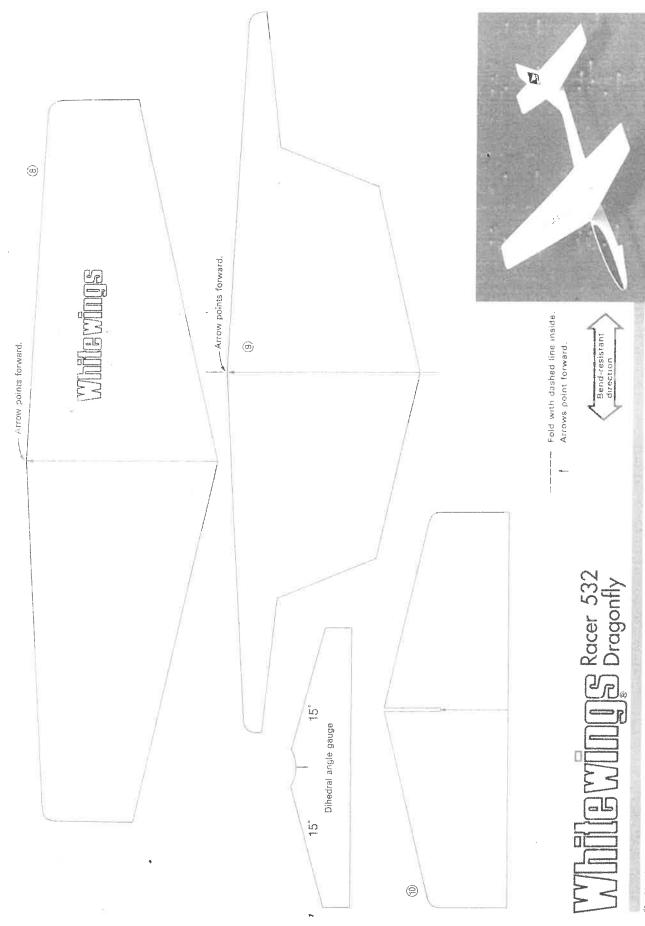


VV DE BENEAURE Racer 533
Sparrowhawk

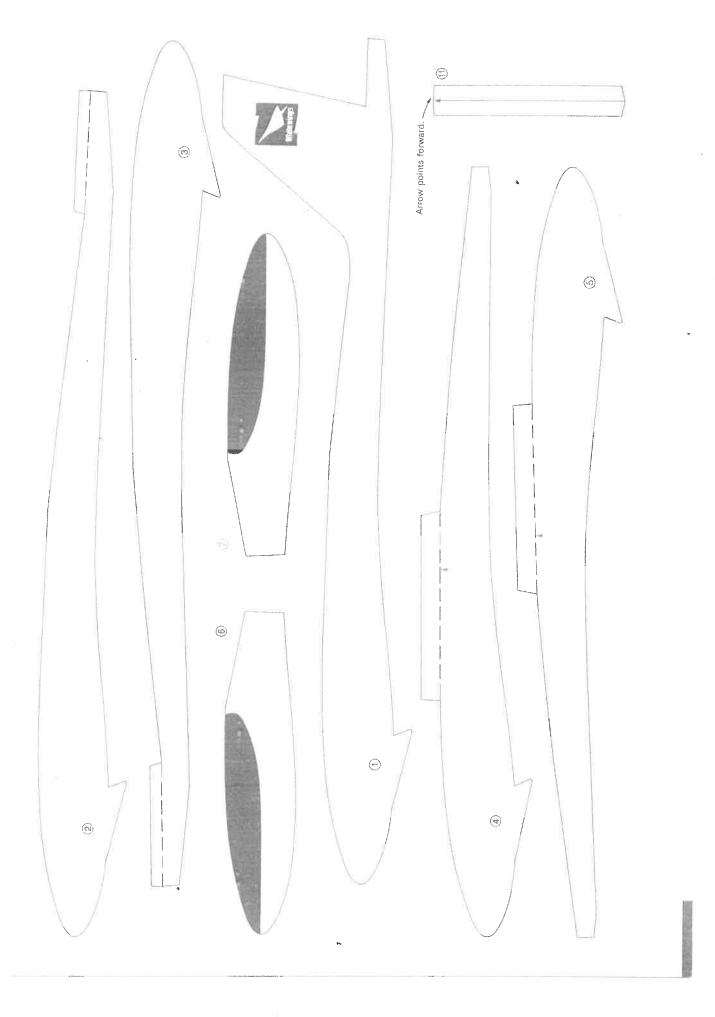
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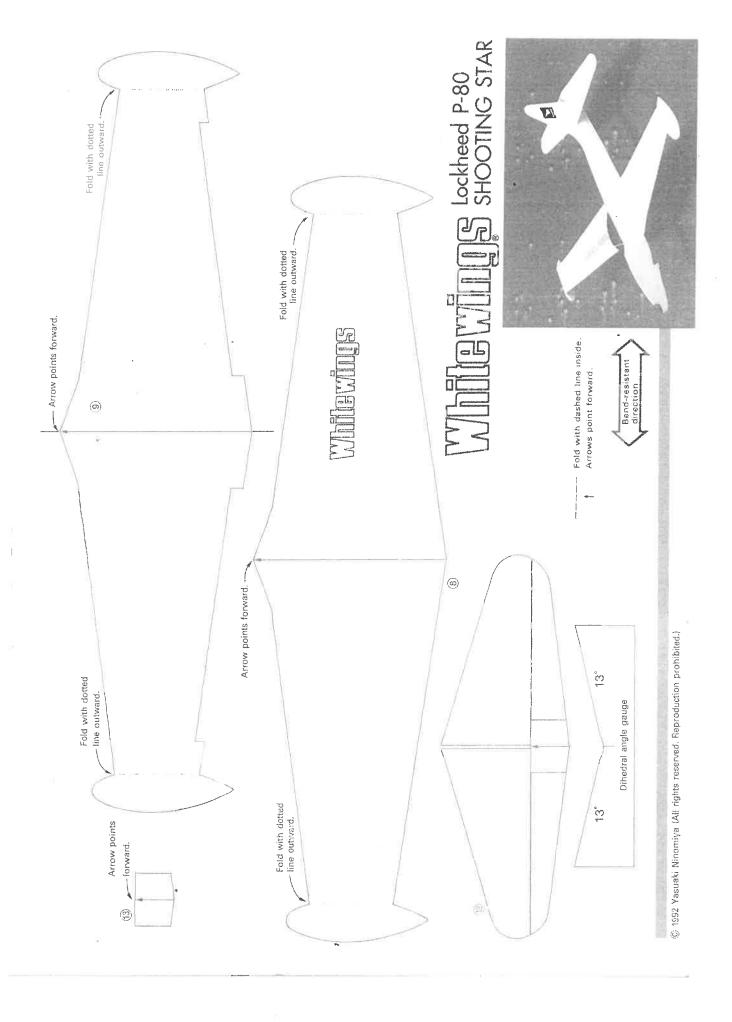


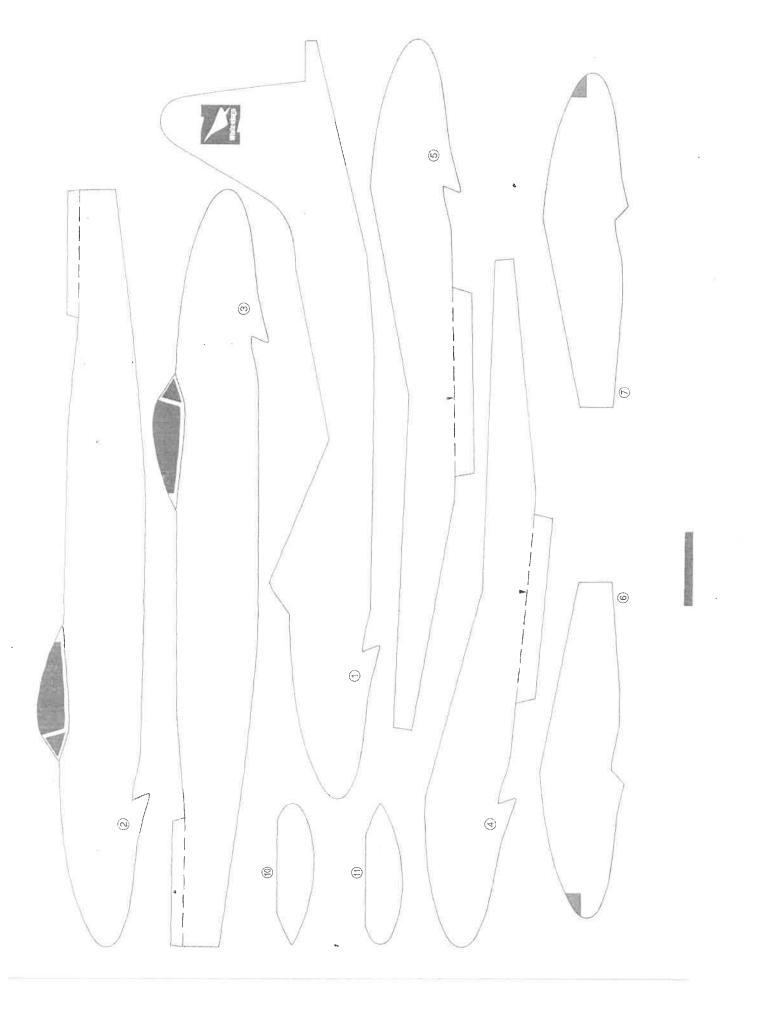


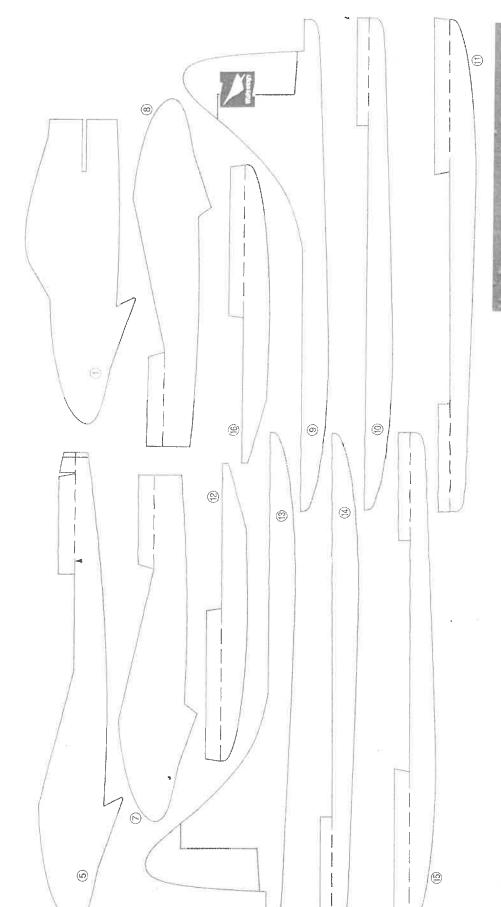


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--- Fold with dashed line inside Arrows point forward.



VIIII De Havilland VAMPIRE

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